

**ABSTRACT OF THE DISCLOSURE**

A railcar-moving vehicle comprises a modified semi-tractor, having a highway mode for operation on roadways, and a rail mode for operation on rails. The vehicle includes an elongate frame with selectively extendable high rail wheels for guiding the vehicle on rails, and rubber-tired drive wheels for operation on roadways. The rubber-tired drive wheels are configured to support the vehicle on a roadway in highway mode, and to contact the rails in rail mode. A moveable weight is disposed on a rear portion of the frame. A load-shifting mechanism moves the moveable weight between a rearward position for rail mode and a forward position for highway mode.

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